

WHAT IS CLAIMED IS:

1. A projection type display unit comprising:
 a light source unit;
 a first cooling fan that cools the light
source unit;
 a light bulb that modulates beams of light
from the light source unit;
 a second cooling fan that cools the light
bulb; and
 a projection lens for projecting light
modulated by the light bulb, and
 wherein a first cooling wind path provided by
the first cooling fan and a second cooling wind path
provided by the second cooling fan are substantially
independent of each other, and
 the second cooling fan cools also an electric
power source of the display unit.
2. The projection type display unit according to
claim 1, wherein an air intake port, the light bulb,
the second cooling fan, the electric power source, and
an air exhaust port are arranged in this order in the
second cooling wind path.
3. The projection type display unit according to
claim 1, wherein a cooling wind from the second cooling
fan cools the light bulb, and then cools the electric
power source of the device.
4. The projection type display unit according to
claim 1, wherein the light bulb is arranged in an air

intake side of the second cooling fan and the electric power source of the device is arranged in an air exhaust side of the second cooling fan, and wherein the second cooling fan draws wind to cool the light bulb and the second cooling fan blows the wind against the electric power source to cool the same.

5. A projection type display unit comprising:

a light source unit;

a first cooling fan that cools the light source unit;

a light bulb that modulates beams of light from the light source unit;

a second cooling fan that cools the light bulb and an electric power source of the device; and

a projection lens for projecting light modulated by the light bulb, and

wherein the second cooling fan comprises a sirocco fan arranged below the light bulb, and wherein an intake air generated by the sirocco fan is taken in from above or laterally of the light bulb to cool the light bulb, and an exhaust air generated by the sirocco fan is blown against the electric power source to cool the electric power source.

6. A projection type display unit comprising:

a light source unit;

a first cooling fan that cools the light source unit;

a light bulb that modulates beams of light

from the light source unit;

a second cooling fan that cools the light bulb and an electric power source of the device; and

a projection lens for projecting light modulated by the light bulb, and

wherein the second cooling fan comprises a sirocco fan arranged above the light bulb, and wherein an intake air generated by the sirocco fan is taken in from below or laterally of the light bulb to cool the light bulb, and an exhaust air generated by the sirocco fan is blown against the electric power source to cool the electric power source.

7. The projection type display unit according to claim 1, further comprising a polarization conversion element for polarization converting beams of light from the light source unit, and a duct that constitutes a wind path for cooling wind produced by the second cooling fan, and

wherein an exhaust air from the second cooling fan cools the electric power source and the polarization conversion element.

8. The projection type display unit according to claim 2, further comprising a polarization conversion element for polarization converting beams of light from the light source unit, and a duct that constitutes a wind path for cooling wind produced by the second cooling fan, and

wherein an exhaust air from the second

cooling fan cools the electric power source and the polarization conversion element.

9. The projection type display unit according to claim 3, further comprising a polarization conversion element for polarization converting beams of light from the light source unit, and a duct that constitutes a wind path for cooling wind produced by the second cooling fan, and

wherein an exhaust air from the second cooling fan cools the electric power source and the polarization conversion element.

10. The projection type display unit according to claim 4, further comprising a polarization conversion element for polarization converting beams of light from the light source unit, and a duct that constitutes a wind path for cooling wind produced by the second cooling fan, and

wherein an exhaust air from the second cooling fan cools the electric power source and the polarization conversion element.

11. The projection type display unit according to claim 5, further comprising a polarization conversion element for polarization converting beams of light from the light source unit, and a duct that constitutes a wind path for cooling wind produced by the second cooling fan, and

wherein an exhaust air from the second cooling fan cools the electric power source and the

polarization conversion element.

12. The projection type display unit according to claim 6, further comprising a polarization conversion element for polarization converting beams of light from the light source unit, and a duct that constitutes a wind path for cooling wind produced by the second cooling fan, and

 wherein an exhaust air from the second cooling fan cools the electric power source and the polarization conversion element.